RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: ~~10/667,966~~

Source: ~~IFWO~~

Date Processed by STIC: ~~7-2-04~~

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
        http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - cPAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
    U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/667,966

1 ____Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 ____Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ____Misaligned Amino Numbering

The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers: use space characters, instead.

4 ____Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 ____Variable Length

Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ____PatentIn 2.0 "bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 ____Skipped Sequences (OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES " response to include the skipped sequences

8 ____Skipped Sequences (NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence
<210> sequence id number
<400> sequence id number
000

9 ____Use of n's or Xaa's (NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 ____Invalid <213> Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 _X_Use of <220>

Sequence(s) 1-15 missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (See 1.823 of Sequence Rules)

12 ____PatentIn 2.0 "bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 ____Misuse of n/Xaa

"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

IFWO

RAW SEQUENCE LISTING   DATE: 07/02/2004
PATENT APPLICATION: US/10/667,966   TIME: 11:51:28

Input.Set : A:\Untitled.ST25.txt
Output Set: N:\CRF4\07022004\J667966.raw

```
    3 <110> APPLICANT: Xie, Dong
    4        Jiang, He
    6 <120> TITLE OF INVENTION: Peptide Derivative Fusion Inhibitors of HIV Infection
    8 <130> FILE REFERENCE: 63024.000002
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/667,966
C--> 10 <141> CURRENT FILING DATE: 2003-09-23
   10 <150> PRIOR APPLICATION NUMBER: 60/412,797
   11 <151> PRIOR FILING DATE: 2002-09-24
   13 <160> NUMBER OF SEQ ID NOS: 15
   15 <170> SOFTWARE: PatentIn version 3.1
   17 <210> SEQ ID NO: 1
   18 <211> LENGTH: 44
   19 <212> TYPE: PRT
   20 <213> ORGANISM: Artificial Sequence
   22 <220> FEATURE:
   23 <223> OTHER INFORMATION: Peptide sequence
   25 <400> SEQUENCE: 1
   27 Ser Leu Glu Gln Ile Trp Asn Asn Met Thr Trp Glu Glu Trp Asp Arg
   28 1               5                   10                  15
   31 Glu Ile Asn Asn Tyr Thr Glu Leu Ile His Glu Leu Ile Glu Glu Ser
   32              20                  25                  30
   35 Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu
   36          35                  40
   39 <210> SEQ ID NO: 2
   40 <211> LENGTH: 34
   41 <212> TYPE: PRT
   42 <213> ORGANISM: Artificial Sequence
   44 <220> FEATURE:
   45 <223> OTHER INFORMATION: Peptide sequence
   47 <400> SEQUENCE: 2
   49 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Lys Leu Ile His
   50 1               5                   10                  15
   53 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu
   54              20                  25                  30
   57 Leu Leu
   61 <210> SEQ ID NO: 3
   62 <211> LENGTH: 39
   63 <212> TYPE: PRT
   64 <213> ORGANISM: Artificial Sequence
   66 <220> FEATURE:
   67 <223> OTHER INFORMATION: Peptide sequence
   69 <400> SEQUENCE: 3
   71 Trp Gln Glu Trp Glu Gln Lys Ile Thr Ala Leu Leu Glu Gln Ala Gln
```

Does Not Comply
Corrected Diskette Needed

see item 11 on error summary sheet

Input Set : **A:\Untitled.ST25.txt**
Output Set: **N:\CRF4\07022004\J667966.raw**

```
72  1            5                 10               15
75  Ile Gln Gln Glu Lys Asn Glu Tyr Glu Leu Gln Lys Leu Asp Lys Trp
76           20              25            30
79  Ala Ser Leu Trp Glu Trp Phe
80       35
83  <210> SEQ ID NO: 4
84  <211> LENGTH: 36
85  <212> TYPE: PRT
86  <213> ORGANISM: Artificial Sequence
88  <220> FEATURE:
89  <223> OTHER INFORMATION: Peptide sequence
91  <400> SEQUENCE: 4
93  Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln
94  1            5                 10               15
97  Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu
98           20              25            30
101 Trp Asn Trp Phe
102          35
105 <210> SEQ ID NO: 5
106 <211> LENGTH: 34
107 <212> TYPE: PRT
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Peptide sequence    same error
113 <400> SEQUENCE: 5
115 Trp Met Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Ser Leu Ile His
116 1            5                 10               15
119 Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu
120          20              25            30
123 Leu Leu
127 <210> SEQ ID NO: 6
128 <211> LENGTH: 34
129 <212> TYPE: PRT
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Peptide sequence
135 <400> SEQUENCE: 6
137 Trp Gln Glu Trp Glu Arg Lys Val Asp Phe Leu Glu Glu Asn Ile Thr
138 1          5                 10               15
141 Ala Leu Leu Glu Glu Ala Gln Ile Gln Gln Glu Lys Asn Met Tyr Glu
142          20              25            30
145 Leu Gln
149 <210> SEQ ID NO: 7
150 <211> LENGTH: 34
151 <212> TYPE: PRT
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Peptide sequence
157 <400> SEQUENCE: 7
```

RAW SEQUENCE LISTING   DATE: 07/02/2004
PATENT APPLICATION: US/10/667,966   TIME: 11:51:28

Input Set : A:\Untitled.ST25.txt
Output Set: N:\CRF4\07022004\J667966.raw

```
159 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Lys Leu Ile His
160 1               5                   10                  15
163 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Glu Asn Glu Gln Glu
164             20                  25                  30
167 Leu Leu
171 <210> SEQ ID NO: 8
172 <211> LENGTH: 44
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Peptide sequence
179 <220> FEATURE:
180 <221> NAME/KEY: MISC_FEATURE
181 <222> LOCATION: (23)..(23)
182 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide
moie
183       ty.
186 <400> SEQUENCE: 8
188 Ser Leu Glu Gln Ile Trp Asn Asn Met Thr Trp Glu Glu Trp Asp Arg
189 1               5                   10                  15
192 Glu Ile Asn Asn Tyr Thr Xaa Leu Ile His Glu Leu Ile Glu Glu Ser
193             20                  25                  30
196 Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu
197             35                  40
200 <210> SEQ ID NO: 9
201 <211> LENGTH: 45
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Peptide sequence        same error
208 <220> FEATURE:
209 <221> NAME/KEY: MISC_FEATURE
210 <222> LOCATION: (45)..(45)
211 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide
moie
212       ty.
215 <400> SEQUENCE: 9
217 Ser Leu Glu Gln Ile Trp Asn Asn Met Thr Trp Glu Glu Trp Asp Arg
218 1               5                   10                  15
221 Glu Ile Asn Asn Tyr Thr Glu Leu Ile His Glu Leu Ile Glu Glu Ser
222             20                  25                  30
225 Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Xaa
226             35                  40                  45
229 <210> SEQ ID NO: 10
230 <211> LENGTH: 34
231 <212> TYPE: PRT
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Peptide sequence
237 <220> FEATURE:
238 <221> NAME/KEY: MISC_FEATURE
```

W--> 192

W--> 225

RAW SEQUENCE LISTING   DATE: 07/02/2004
PATENT APPLICATION: US/10/667,966   TIME: 11:51:28

Input Set : A:\Untitled.ST25.txt
Output Set: N:\CRF4\07022004\J667966.raw


```
      239 <222> LOCATION: (13)..(13)
      240 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide
moie
      241      'ty.
      244 <400> SEQUENCE: 10
W-->  246 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Xaa Leu Ile His
      247 1               5                   10                  15
      250 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Trp Glu
      251              20                  25                  30
      254 Leu Leu
      258 <210> SEQ ID NO: 11
      259 <211> LENGTH: 35
      260 <212> TYPE: PRT
      261 <213> ORGANISM: Artificial Sequence
      263 <220> FEATURE:
      264 <223> OTHER INFORMATION: (Peptide sequence)
      266 <220> FEATURE:
      267 <221> NAME/KEY: MISC_FEATURE
      268 <222> LOCATION: (35)..(35)
      269 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide
moie
      270      ty.
      273 <400> SEQUENCE: 11
      275 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Glu Leu Ile His
      276 1               5                   10                  15
      279 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu
      280              20                  25                  30
W-->  283 Leu Leu Xaa
      284          35
      287 <210> SEQ ID NO: 12
      288 <211> LENGTH: 39
      289 <212> TYPE: PRT
      290 <213> ORGANISM: Artificial Sequence
      292 <220> FEATURE:
      293 <223> OTHER INFORMATION: (Peptide sequence) same error
      295 <220> FEATURE:
      296 <221> NAME/KEY: MISC_FEATURE
      297 <222> LOCATION: (13)..(13)
      298 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide
moie
      299      ty.
      302 <400> SEQUENCE: 12
W-->  304 Trp Gln Glu Trp Glu Gln Lys Ile Thr Ala Leu Leu Xaa Gln Ala Gln
      305 1               5                   10                  15
      308 Ile Gln Gln Glu Lys Asn Glu Tyr Glu Leu Gln Lys Leu Asp Lys Trp
      309              20                  25                  30
      312 Ala Ser Leu Trp Glu Trp Phe
      313          35
      316 <210> SEQ ID NO: 13
      317 <211> LENGTH: 40
      318 <212> TYPE: PRT
      319 <213> ORGANISM: Artificial Sequence
```

```
     321 <220> FEATURE:
     322 <223> OTHER INFORMATION: Peptide sequence
     324 <220> FEATURE:
     325 <221> NAME/KEY: MISC_FEATURE
     326 <222> LOCATION: (40)..(40)
     327 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide
moie
     328        ty.
     331 <400> SEQUENCE: 13
     333 Trp Gln Glu Trp Glu Gln Lys Ile Thr Ala Leu Ile Glu Gln Ala Gln
     334 1               5                   10                  15
     337 Ile Gln Gln Glu Lys Asn Glu Tyr Glu Leu Gln Lys Leu Asp Lys Trp
     338                20                  25                  30
W--> 341 Ala Ser Leu Trp Glu Trp Phe Xaa
     342                35                  40
     345 <210> SEQ ID NO: 14
     346 <211> LENGTH: 34
     347 <212> TYPE: PRT
     348 <213> ORGANISM: Artificial Sequence
     350 <220> FEATURE:
     351 <223> OTHER INFORMATION: Peptide sequence   same error
     353 <220> FEATURE:
     354 <221> NAME/KEY: MISC_FEATURE
     355 <222> LOCATION: (13)..(13)
     356 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide
moie
     357        ty.
     360 <400> SEQUENCE: 14
W--> 362 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Xaa Leu Ile His
     363 1               5                   10                  15
     366 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Glu Asn Glu Gln Glu
     367                20                  25                  30
     370 Leu Leu
     374 <210> SEQ ID NO: 15
     375 <211> LENGTH: 35
     376 <212> TYPE: PRT
     377 <213> ORGANISM: Artificial Sequence
     379 <220> FEATURE:
     380 <223> OTHER INFORMATION: Peptide sequence
     382 <220> FEATURE:
     383 <221> NAME/KEY: MISC_FEATURE
     384 <222> LOCATION: (35)..(35)
     385 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide
moie
     386        ty.
     389 <400> SEQUENCE: 15
     391 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Lys Leu Ile His
     392 1               5                   10                  15
     395 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Glu Asn Glu Gln Glu
     396                20                  25                  30
W--> 399 Leu Leu Xaa
     400                35
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/02/2004
PATENT APPLICATION: **US/10/667,966**   TIME: 11:51:29

Input Set : **A:\Untitled.ST25.txt**
Output Set: **N:\CRF4\07022004\J667966.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; Xaa Pos. 23
Seq#:9; Xaa Pos. 45
Seq#:10; Xaa Pos. 13
Seq#:11; Xaa Pos. 35
Seq#:12; Xaa Pos. 13
Seq#:13; Xaa Pos. 40
Seq#:14; Xaa Pos. 13
Seq#:15; Xaa Pos. 35

VERIFICATION SUMMARY   DATE: 07/02/2004
PATENT APPLICATION: **US/10/667,966**   TIME: 11:51:29

Input Set : **A:\Untitled.ST25.txt**
Output Set: **N:\CRF4\07022004\J667966.raw**

```
L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:16
L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:32
L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:32
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:32
L:362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:32
```